

CLAIM LISTING

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (original): A method of applying electromagnetic energy to a target, comprising:
moving a coil relative to the target; and
applying current to the coil at a plurality of locations in order to direct magnetic fields to
the target such that the magnetic field energy over time is higher at the target than areas
around the target.

Claim 2 (original): The method of claim 1, further comprising adjusting the position of the coil
so that the magnetic field energy at the target is greater than magnetic field energy at areas near
the target at the same distance to the coil.

Claim 3 (original): The method of claim 1, further comprising adjusting the current to the coil
at each location so that the magnetic field at the target is constant.

Claim 4 (original): The method of claim 3, wherein the current is adjusted by the inverse of the
square of the distance between the coil and the target.

Claim 5 (original): The method of claim 1, further comprising selectively not applying current
to the coil at a location where directing a magnetic field at the target would expose an area to
undesirable magnetic field energy.

Claim 6 (original): The method of claim 1, further comprising selecting a duration for applying
the current depending on a location of the coil.

Claim 7 (original): The method of claim 1, further comprising selecting an inter-pulse interval
for applying the current depending on a location of the coil.

Claim 8 (original): The method of claim 1, further comprising selecting an intra-pulse frequency for applying the current depending on a location of the coil.

Claim 9 (original): The method of claim 1, further comprising selecting a speed of movement of the coil.

Claim 10 (original): The method of claim 1, further comprising a plurality of coils.

Claim 11 (original): The method of claim 1, wherein the coil is a transcranial magnetic stimulation (TMS) coil.

Claim 12 (original): A method of applying electromagnetic energy to a target, comprising:
rotating a coil relative to the target; adjusting the position of the coil so that magnetic field energy from the coil will be greater at the target than magnetic field energy at areas near the target at the same distance to the coil; and
applying current to the coil at a plurality of locations in order to direct magnetic fields to the target such that the magnetic field energy over time is higher at the target than areas around the target.

Claim 13 (original): The method of claim 12, further comprising adjusting the current to the coil at each location so that the magnetic field at the target is constant.

Claim 14 (original): The method of claim 13, wherein the current is adjusted by the inverse of the square of the distance between the coil and the target.

Claim 15 (original): The method of claim 12, further comprising selectively not applying current to the coil at a location where directing a magnetic field at the target would expose an area to undesirable magnetic field energy.

Claim 16(original): The method of claim 12, further comprising selecting a duration for applying the current depending on a location of the coil.

Claim 17 (original): The method of claim 12, further comprising selecting an inter-pulse interval for applying the current depending on a location of the coil.

Claim 18 (original): The method of claim 12, further comprising selecting an intra-pulse frequency for applying the current depending on a location of the coil.

Claim 19 (original): The method of claim 12, further comprising selecting a speed of movement of the coil.

Claim 20 (original): The method of claim 12, further comprising a plurality of coils.

Claim 21 (original): The method of claim 12, wherein the coil is a transcranial magnetic stimulation (TMS) coil.

Claim 22 (cancelled)

Claim 23 (cancelled)

Claim 24 (cancelled)

Claim 25 (cancelled)

Claim 26 (cancelled)

Claim 27 (new): A method of applying electromagnetic energy to a target brain region, comprising:

moving a coil relative to the target brain region; and

applying current to the coil when the coil is at a plurality of locations in order to direct magnetic fields to the target brain region such that the neural stimulation over time at the target brain region sums and is higher at the target brain region than areas around the target.

Claim 28 (new): The method of claim 27, wherein the step of applying current comprises applying current to the coil when the coil is at a plurality of locations in order to direct magnetic fields to a deep target brain region.